

# Ayesha Aiman

To work in a research-oriented institute with a performance-driven environment where I can demonstrate and apply my knowledge and skills and put my best efforts into the organization as well as achieve individual goals.

## EXPERIENCE

**Ph.D. /PMRF Research Scholar** — Jamia Millia Islamia  
August 2021 - PRESENT

## EDUCATION

**Ph.D. BIOSCIENCES** — Jamia Millia Islamia, Delhi  
August 2021 - PRESENT

**M.Sc. BIOCHEMISTRY** — Jamia Millia Islamia, Delhi  
2018 - 2020  
Aggregate - 9.05 CGPA

**B.Sc. BIOSCIENCES** — Jamia Millia Islamia, Delhi  
2015-2018  
Percentage - 80.37%

**INTERMEDIATE** — M.A.F ACADEMY, NOIDA  
2011-2013  
Percentage - 80.6%

**MATRICULATION** — M.A.F ACADEMY, NOIDA  
2009-2011  
Aggregate - 9.2 CGPA

## ACHIEVEMENTS

**PMRF 2022, ICAR-JRF 2021, GATE 2021, among toppers in B.Sc. and M.Sc.**

Excellent performance in the World Microbiome Quiz (2020)

## SEMINAR & CONFERENCES

- **INFORMATIVE SESSION** by **Prof. Dr. Joachim Spatz at IIT, Delhi**
- "Genetic disorders of dietary excess: Getting to the heart of the matter" 2019 by **Dr. Helen Hobbs at JNU, Delhi**
- **NATIONAL CONFERENCE (NCRABS), 2020, JMI, Delhi**
- **SPARC INDO-US IMMUNOLOGY WORKSHOP, 2020**
- **INDO-SINGAPORE WORKSHOP** on "Cardiovascular Diseases: An Insight to New Advances and their Translational Application" 24th - 29th SEPTEMBER, 2021
- "Understand & Explore The World of Fluorescence", Theory and skill development, 25th -27th May 2022, **IIT Delhi**
- Poster presentation in National seminar on Biophysics, Biophysika 2023, **JMI Delhi**
- Poster presentation in **NCIACS-2023, JMI Delhi**
- Poster presentation in **ICSBDD-2023, GBU, Greater Noida**
- Poster presentation in **IISC-2023, Bangalore**
- Poster presentation in **INCD-2024, Punjab University, Chandigarh**
- Poster presentation at National Conference on Recent Advancements in Biophysics and Structural Biology, Biophysika 2024, **JMI Delhi**

## LABORATORY SKILLS

Bacterial cell culture, cloning, protein expression, and purification, chromatographic techniques, Gel electrophoresis, PCR, SDS PAGE, Western blotting, Advanced spectroscopy techniques such as fluorescence, UV-visible, DSC, ITC, etc. Immunodiffusion techniques

## TECHNICAL SKILLS

MS-OFFICE, C++ programming beginner, Origin, sigma plot, computational biology

## CONTACT

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New Delhi, India

## PUBLICATIONS & RESEARCH WORK

- ❖ Bashir, S., Aiman, A., Shahid, M., Chaudhary, A. A., Sami, N., Basir, S. F., ... & Islam, A. (2024). Amyloid-Induced Neurodegeneration: A Comprehensive Review through Aggregomics Perception of Proteins in Health and Pathology. *Ageing Research Reviews*, 102276. [DOI:10.1016/j.arr.2024.102276](https://doi.org/10.1016/j.arr.2024.102276)
- ❖ Bashir, S., Aiman, A., Chaudhary, A. A., Khan, N., Ahanger, I. A., Sami, N., ... & Islam, A. (2024). Probing protein aggregation through spectroscopic insights and multimodal approaches: A comprehensive review for counteracting neurodegenerative disorders. *Heliyon*. [DOI:10.1016/j.heliyon.2024.e27949](https://doi.org/10.1016/j.heliyon.2024.e27949)
- ❖ Khan, T., Waseem, R., Zehra, Z., **Aiman, A.**, Bhardwaj, P., Ansari, J., ... & Islam, A. (2022). Mitochondrial Dysfunction: Pathophysiology and Mitochondria-Targeted Drug Delivery Approaches. *Pharmaceutics*, 14(12), 2657. [DOI:10.3390/pharmaceutics14122657](https://doi.org/10.3390/pharmaceutics14122657)
- ❖ Ali, N., **Aiman, A.**, Shamsi, A., Hassan, I., Shahid, M., Gaur, N. A., & Islam, A. (2022). Identification of Thermostable Xylose Reductase from *Thermothelomyces thermophilus*: A Biochemical Characterization Approach to Meet Biofuel Challenges. *ACS omega*, 7(48), 44241-44250. [DOI: 10.1021/acsomega.2c05690](https://doi.org/10.1021/acsomega.2c05690)
- ❖ **Aiman, A.**, Basir, S. F., & Islam, A. (2022). Interferons Horizon Therapeutics. In (Ed.), *Interferon - Immune Metabolism* [Working Title]. IntechOpen. [DOI:10.5772/intechopen.104718](https://doi.org/10.5772/intechopen.104718)
- ❖ Wani, S. A., **Aiman, A.**, & Basir, S. F. (2021), "Role of Vascular Inflammation in the induction of hypertension and therapeutic role of plant-derived terpenes", *World Journal of Pharmacy and Pharmaceutical Sciences*, Volume 10, Issue 9, 1910-1935. Impact factor-7.632 [DOI:10.20959/wjpps20219-19992](https://doi.org/10.20959/wjpps20219-19992)
- ❖ "Isolation and Clone verification of recombinant IRF-1 and IRF-2 plasmids in *E. Coli*" under the supervision of **Prof. P.C. Rath** at JNU, **New Delhi**.

## TEACHING ASSISTANTSHIP

- Meerabai Institute of Polytechnic, Maharani Bagh, Delhi.
- Acharya Narendra Dev College, University of Delhi, New Delhi.
- Chaudhary Charan Singh University, Ramgarhi, Meerut.